

IMAGE ENHANCEMENT AND SEGMENTATION OF STRUCTURES IN 3D ULTRASOUND IMAGES FOR VOLUME MEASUREMENTS

ABSTRACT OF THE DISCLOSURE

5 A segmentation algorithm is optimized to robustly locate and measure the volume of
fluid filled or non-fluid filled structures or organs from imaging systems derived from
ultrasound, computer assisted tomography, magnetic resonance, and position emission
tomography. A clinical specimen is measured with a plurality of 2D scan planes processed by
10 the segmentation algorithm to estimate the 2D based area the 3D based volumes of fluid-
filled and non-fluid filled organs or structures.



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BLACK LOWE & GRAHAM ^{PLLC}



816 Second Avenue
Seattle, Washington 98104
206.381.3300 • F: 206.381.3301